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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/698,978	10/27/2000	Jose C. Brustoloni	6-3	8298	
22046	7590 06/25/2004	90 06/25/2004		EXAMINER	
LUCENT TECHNOLOGIES INC.			TRAN, ELLEN C		
	.DMINISTRATOR FORDS CORNER ROAD	ART UNIT	PAPER NUMBER		
HOLMDEL	, NJ 07733		2134	2134	
			DATE MAILED: 06/25/2004	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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1	Application No.	Applicant(s)			
	09/698,978	BRUSTOLONI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ellen C Tran	2134			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the o	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 O	ctober 2000.				
	action is non-final.				
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-40 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on is/are: a)☒ acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
		PRIMARY EXAMINER			
Attachment(s)	A) 🔲 Jakon dawa Owan	4 (DTO 412)			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4. 	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6 6) Other:				

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DETAILED ACTION

This action is responsive to communication: original application filed
 October 2000, with acknowledgement of continuing date 28 October 1999.

2. Claims 1-40 are currently pending in this application. Claims 1, 2, 3, 9, 15, 21, 27, 28, 29, and 35 are independent claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language

4. Claims 1-5, 9-11, 15-17, 21-23, 27-31, 33, and 35-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Borella et al. U.S. Patent No. 6,697,354 (hereinafter '354).

As to independent claim 1, "A method comprising: performing, at a client, to outgoing packets" is taught in '354 col. 6, lines 3-8;

"having the client's private source IP address and generalized port number (GPN) and a protocol not directly supported by a network address translator (NAT) at which the client's private source IP address and GPN are translated to a NAT'S global source IP address and GPN, respectively, the functions of an

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Application Layer Gateway (ALG) that need to be implemented in association with the NATS translations" is shown in '354 col. 3 line 64 through col. 4, line 15.

As to independent claim 2, "A method comprising: performing, at a client, to incoming packets" is disclosed in '354 col. 6, lines 3-8;

"sent to a network address translator's (NAT's) global destination IP address and generalized pod number (GPN) and having a protocol not directly suppoded by the NAT at which the NAT'S global destination IP address and GPN are translated to the client's private destination IP address and GPN, respectively, the functions of an Application Layer Gateway (ALG) that need to be implemented in association with the NAT'S translations" is taught in '354 col. 3 line 64 through col. 4, line 15.

As to independent claim 3, this claim incorporates the methods of claim 1 and 2 and is therefore rejected along the same rationale.

As to dependent claim 4, "wherein modifying the packets comprises modifying a TCP or UDP checksum in a packet's TCP or UDP header to account for the IP address and TCP or UDP source port number translations" is shown in '354 col. 10, lines 49-56.

As to dependent claim 5, "wherein modifying the checksum comprises adding to the TCP or UDP checksum the difference between the global and private source IP addresses, and the difference between global and private TCP or UDP source port numbers" is disclosed in '354 col. 13, line 1 through 38.

As to independent claim 9, this claim contains substantially similar subject matter as cited in claim 3 and is rejected along the same rationale.

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As to dependent claims 10 and 11 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claim 15, this claim is directed to the apparatus of method of claim 3 and is rejected along the same rationale.

As to dependent claims 16 and 17 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claim 21, this claim is directed to the apparatus of method of claim 9 and is rejected along the same rationale.

As to dependent claims 22 and 23 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

As to independent claims 27 and 28, these claims are directed to the apparatus of method of claims 1 and 9 and are rejected along the same rationale.

As to independent claim 29, this claim is directed to a computer readable medium of method 3 and is rejected along the same rationale.

As to dependent claims 30 and 31 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

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As to dependent claim 33, "wherein the method further comprises

processing any necessary Application Layer Protocol (ALG)" is taught in '354 col.

8, lines 14-20.

As to independent claim 35, this claim is directed to a computer readable medium of method 9 and is rejected along the same rationale.

As to dependent claims 36 and 37 these claim contains substantially similar subject matter as cited in claims 4 and 5 above and are rejected along the same rationale.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 6-8, 12-14, 18-20, 24-26, 32, 34, and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over '354 as applied to claims 1, 9, 15, 21, 29 and 35 in further view of Nessett et al., U.S. Patent No. 6,055,236 (hereinafter '236).

As to dependent claim 6, "and adding to a TCP or UDP checksum in a packet's TCP or UDP header, the difference between the global and private source IP addresses, and the difference between global and private TCP or UDP source port numbers" is taught in '354 col. 13, line 1 through 38 "Method 140 (FIG. 10) is illustrated with a specific example using TCP 58/IP 48 layer from layered protocol stack 42 ... however, other protocol layer in layered protocol stack 42, could also be used ... Table 3 illustrates an exemplary data packet with an outer IP 48 header added for router 26";

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the following is not taught in '354:

"wherein the protocol is an authenticating and/or encrypting-decrypting AH or ESP IPSec security protocol in a tunnel or a transport mode, and modifying the packets comprises: before authentication and/or encryption, in the transport mode, replacing the client's source port number with a global port number, or in the tunnel mode, replacing an encapsulated client's source IP address and port number by the NAT'S global IP address and port number" however '236 teaches "The IPsec services can be applied in one of two modes, a "transport mode" or a "tunnel mode... As is known in the art, a virtual tunnel can be created by encapsulating a data packet inside another data packet. For example, an outer header is added before an inner header of data packet (e.g., Tables 3, 5, 8, and 11). Between the inner header and outer headers are any other header for a data path, or security" in col. 22, line 1 through col. 23, line 64.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify dynamic network translation taught in '236 to include a means to maintain establish secure internet sessions. One of ordinary skill in the art would have been motivated to perform such a modification to increase user flexibility and accommodate IP protocols IPv4 and IPv6 see '236 (col. 4, lines 59 et seq.) "Thus, it is desirable to allow an external network device to locate and/or communicate with services on internal network devices on a stub network using Distributed Network Address Translation ... using Internet Protocol security and other security protocol".

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As to dependent claim 7, "further comprising processing any necessary Application Layer Protocol (ALG)" is taught in '354 col. 8, lines 14-20 "Above transmission layer 56 is an application layer 62 ... more or fewer protocol layers can also be used in protocol stack 42".

As to dependent claim 8, "further comprising, for the AH protocol, computing each packet's authentication data as if the source IP address were equal to the NAT'S global IP address" is shown in '236 col. 21, lines 1-67 "There are a number of security measures that can be used with IP 48 ... IPsec typically defines two security services, each having an associated header that is added to an IP 48 packet data that it protects."

As to dependent claims 12-14, 18-20, 24-26, 32, 34, and 38-40 these claims contain substantially similar subject matter as cited in claims 5-8 above and are rejected along the same rationale.

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Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ellen C Tran whose telephone number is (703) 305-8917. The examiner can normally be reached on 6:30 am to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory A Morse can be reached on (703) 308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-5484.

NORMAN M. WRIGHT PRIMARY EXAMINER

Ellen Tran, Patent Examiner Technology Center 2134 10 June 2004